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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER  <b>57.0474 US PCT</b> <small>US APPLICATION NO. (If known, see 37 CFR 1.5)</small> <b>10/538316</b>
INTERNATIONAL APPLICATION NO.  <b>PCT/GB2003/005395</b>	INTERNATIONAL FILING DATE  <b>11 December 2003 (11.12.2003)</b>	PRIORITY DATE CLAIMED  <b>21 December 2002 (21.12.2002)</b>
TITLE OF INVENTION <b>SYSTEM AND METHOD FOR REPRESENTING AND PROCESSING AND MODELING SUBTERRANEAN SURFACES</b>		
APPLICANT(S) FOR DO/EO/US <b>ASSA, Steven Brent and RAMSHORN, Christoph</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76..</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.</li> <li>18. <input checked="" type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). (<b>WO 2004/057375 A1</b>)</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: <b>PCT/IB/308 Notice Informing Applicant of the Communication of the International Application to the Designated Offices</b></li> </ol>		

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO		ATTORNEY'S DOCKET NUMBER	
10/538316		PCT/GB2003/005395		57.0474 US PCT	
21. The following fees are submitted:				Applicant Use	Office use only
<input checked="" type="checkbox"/> a) Basic national fee ..... \$300.00				\$300.00	
<input checked="" type="checkbox"/> b) Examination fee ..... \$200.00				\$200.00	
<input checked="" type="checkbox"/> c) Search fee ..... \$500.00				\$500.00	
TOTAL OF ABOVE CALCULATIONS =				\$1000.00	
<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	Rate		
130 - 100 =	30 / 50 =	50	x \$250.00	\$250.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	44 - 20 =	24	x \$50.00	\$1,200.00	
Independent claims	2 - 3 =	0	x \$200.00		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated are reduced by 1/2.					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$2,580.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
TOTAL FEES ENCLOSED =				\$2,580.00	
Amount to be refunded:				\$	
Amount to be refunded:				\$	
a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed.					
b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>19-0615</u> in the amount of <u>\$2,580.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-0615</u> . A duplicate copy of this sheet is enclosed.					
d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:				SIGNATURE	
Intellectual Property Law Department Schlumberger Doll Research 36 Old Quarry Road Ridgefield, CT 06877-4108 13 June 2005				Jody Lynn DeStefanis NAME	
				44,653 REGISTRATION NUMBER	

FEE VALUE	
DEPOSIT ACCOUNT NO	
19 0615	
FEE	VALUE
CODE	DESCRIPTION
1032	(500)
1642	400

Spec. 93.  
claim - 09.  
Drawing - 28.

10/538316

JC20 Rec'd PCT/PTO 1 3 JUN 2005 PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	)	CUSTOMER NO.: 37003
ASSA, Steven Brent and RAMSHORN, Christoph	)	Group Art Unit:
Appl. No.: To be Assigned	)	Examiner:
Int'l Appl No.: PCT/GB2003/005395	)	
Priority Appl. No. GB 0229991.5	)	
Filing Date: 13 June 2005	)	
Int'l Filing Date: 11 December 2003	)	
Priority Filing Date: 21 December 2002	)	
Title: SYSTEM AND METHOD FOR REPRESENTING AND PROCESSING AND MODELING SUB- TERRANEAN SURFACES	)	Docket N°: 57.0474 US PCT

EXPRESS MAIL CERTIFICATE  
UNDER 37 CFR §1.10

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Express Mail Label Number: EV 058371875 US

Date of Deposit: 6-13-05

I hereby certify that the attached US national patent application and fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to Mail Stop PCT, Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

(Signature)  
(Print Name)

Ruth A. Schreiber  
Ruth A. Schreiber

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